

ABSTRACT OF THE DISCLOSURE

**METHODS FOR IDENTIFYING INHIBITORS OF GADD45
POLYPEPTIDE ACTIVITY, AND INHIBITORS OF SUCH ACTIVITY**

The present invention is directed to novel methods for assaying for modulators of GADD45 polypeptide activity. The invention also provides means to sensitize a proliferating cell to a DNA base-damaging agent by administration of novel inhibitors of GADD45 polypeptide activity. The invention further provides polypeptides which interfere with the ability of Cdc2/cyclin B1 complexes to cause a pause at the G2/M stage of the cell cycle in response to GADD45, and nucleic acids which encode such polypeptides.

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